

**State of California**  
Department of Food and Agriculture  
Division of Measurement Standards

Certificate Number: 5563-08  
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**California Type Evaluation Program**  
**Certificate of Approval**  
**for Weighing and Measuring Devices**

**For:**

Electronic Watthour Meter  
Models: 6320-XP-X0  
Generic Name: PowerHawk 6320  
Voltage Rating: 120/208/240 VAC  
Class (CL): 200 (200 Amps Max.)  
Test Amps (TA): 30 Amps  
Watthour Test Constant (Kh) = 1 Wh or 0.001 kWh

**Submitted by:**

Triacta Power Technologies  
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**Standard Features and Options**

**Model Number Matrix Designation:**

6320	-	XP	-	X0
Base Unit	-	X = Number of Phases or elements	-	10 = 10 meters
Model No.		(CTs) per meter. 1, 2, or 3		20 = 20 meters

**Internal Scrolling Indicator:**

LCD (Liquid Crystal Display), 1.000 kWh register.

**Current Transformers (CTs):**

200A, CTR 200:0.08A or 2500:1, Triacta Model Number 900-313-01 (Filtran 7896 or Taewatrans TZ106L)  
Accuracy class 0.1, Burden 15.0, 600V Insulation Rated, Rated Frequency 60 Hz

**Triacta Model 9320 External Pulse Box:**

Required to perform accuracy tests and certify the electric watthour meter. This device must be supplied to the local weights and measures test facility to perform specific California Code of Regulations test requirements.

**Note:** A meter identification key must be posted by the meter's indicator to identify which meter serves which tenant.

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Effective Date: July 28, 2008

Edmund E. Williams, Director

**Triacta Power Technologies**  
**Electronic Watthour Meter**  
**Models: 6320-XP-X0**

**Application:** For use as a watthour metering system in legally sub-metered electric service applications.

**Identification:** The main meter identification information is on the face of the meter case. The external CT's identification is on each CT. The serial number is on the main label and on the printed circuit board (PCB). The serial number is also accessible from the internal scrolling LCD indicator by pressing and holding, approximately 3 seconds, the select button until the "diagnostic" mode is displayed. Press the select button again until the "Local IP address" is displayed. Then press the right arrow button until the "serial number xxxxxxxx" is displayed.

900-313-01	Rev A.00
Accuracy Class 0.1	Ratio 2500:1
S/N 0251070647-P9-1	

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CT Label

<b>POWERHAWK Model No 6320-3P-10 HIGH DENSITY SMART METER</b>	
Frequency:	60Hz
4 Wire, 3 Element, Y Configuration	
Rated Voltage:	120/208/240 VAC
Metering Points:	10
Temperature Range:	0°C-50°C
Max. Probe Length:	100m, 22AWG
Class (CL):	200 (200A Max)
CT Ratio:	2500:1
Kh:	1 Wh
Test Amps (TA)	30
Serial Number:	0251070647

Main  
Identification  
Label

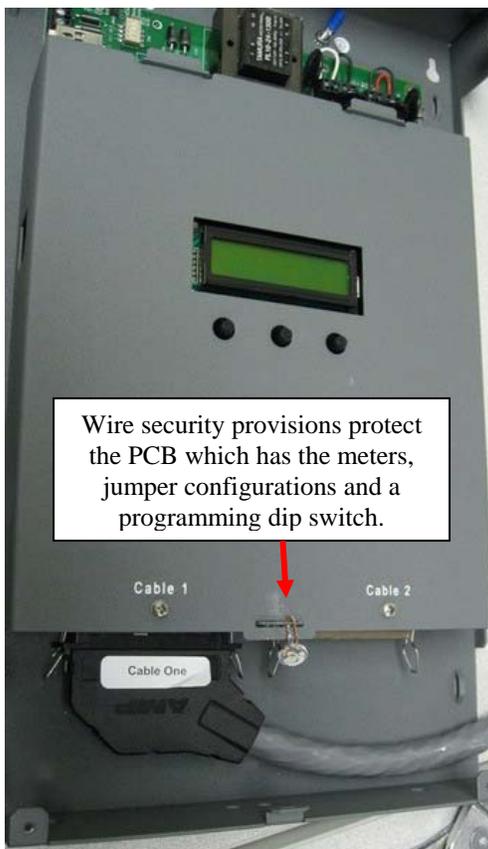
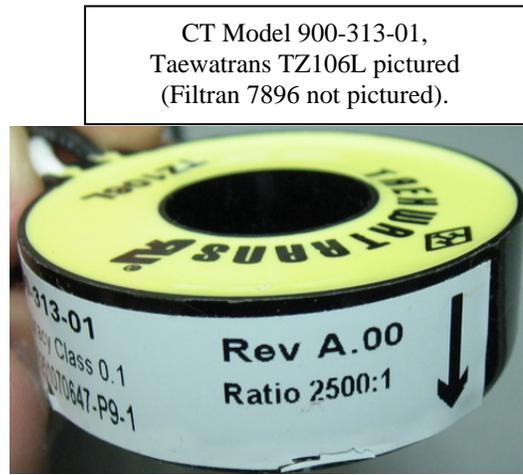


Serial Number  
displayed on the  
LCD indicator.

The serial number  
is the same for all  
20 meters.

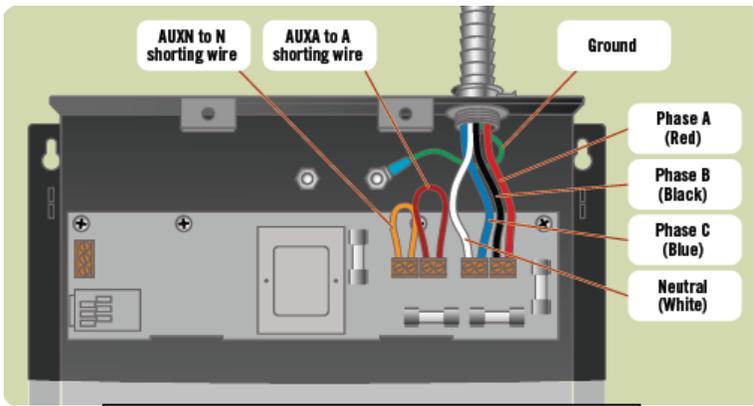
**Triacta Power Technologies**  
**Electronic Watthour Meter**  
**Models: 6320-XP-X0**

**Sealing:** Category 2 with a physical seal and no event counters. The printed circuit board cover (PCB) utilizes a physical seal to prevent access to the PCB. The system's main cover is also protected by a physical security seal preventing access to the system's configuration, calibration access points, and Cat. 5 connection. When calibration switch is in the "unlocked" position metrological related settings can be changed via a remote laptop computer through a Cat. 5 connection. The internal scrolling LCD indicator will display "unlocked" in this state. When the dip switch is in the "off" or "locked-out" position the meter is in the normal usage mode. This prevents the meter from being sealed and used in the unlocked (calibration/configuration mode). See unlocked position picture below.

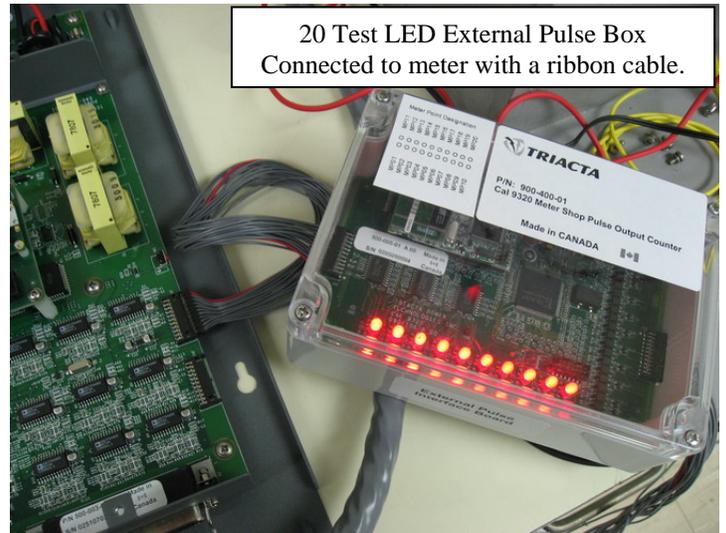


**Triacta Power Technologies**  
**Electronic Watthour Meter**  
**Models: 6320-XP-X0**

**Operation:** The device has an internal scrolling register and displays each meter indication for approximately 5 seconds. Pressing the left or right arrows will scroll the indicator to a particular meter indication (see the note on page 1). An external pulse box must be utilized for testing (disconnected when testing is completed) and must be provided to the officials responsible for verifying meter performance. The pulse box must be attached to the meter with a ribbon cable (See picture below) and has 20 red pulsing LED's that flash on and off when a load is applied to a specific meter or CT. The red LED's are normally illuminated, then flash off momentarily indicating 0.001 Kwh or 1 watt-hour per flash. CT's line and load are direction sensitive. The arrow on the CT points toward the load.



Electrical Hookup for Testing Purposes

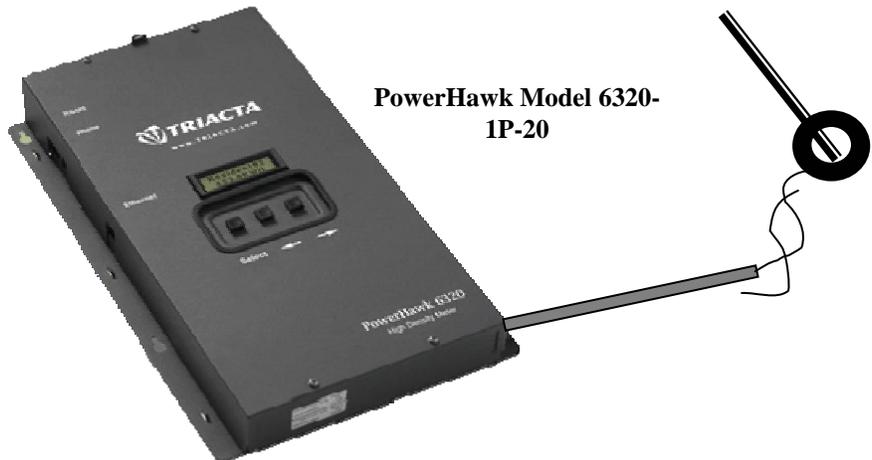


**Test Conditions:** Meter model 6320-3P-10 with external current transformers and an external pulse box were submitted for evaluation. Three meters were randomly selected for initial testing at the Division of Measurement Standards (DMS) lab. The meters were then installed on a test bench at DMS with various loads. After a permanence period of approximately 29 days the meters were retested. The meters were subjected to accuracy tests from 3 amps to 30 amps at both unity and 0.5 power factors. Starting load and creep tests were also conducted.

Results of the evaluation indicate the devices comply with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2008 Edition

**Tested By:** John Roach (CA)



PowerHawk Model 6320-1P-20